AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A plasma generation apparatus for processing <u>a</u> material under process using with a plasma, the apparatus comprising:

a power electrode separated from the a material under process at being processed by a predetermined interval;

a first dielectric layer interposed between the power electrode and the material under processbeing processed;

an auxiliary plasma (AP) earth electrode disposed adjacent to the power electrode and generating an auxiliary plasma using thea power smaller than power applied to generate a main plasma generated between the power electrode and the material under process being processed;

a second dielectric layer interposed between the power electrode and the AP earth electrode;

a gas flow portion for providing mixed gas mixture to a space between the power electrode and the AP earth electrode for plasma reaction; and

a power controller controlling RF power supplied to the power electrode.

- 2. (Currently Amended) The apparatus of claim 1, further comprising an MPa main plasma (MP) earth electrode, which faces the power electrode and is disposed adjacent to the material under process being processed, for generating the main plasma.
- 3. (Currently Amended) The apparatus of claim 2, wherein the MP earth electrode includes a conveyer belt for transporting the material <u>under processed</u> while maintaining an earth state.
 - 4. (Original) The apparatus of claim 1, further comprising:
 - a capacitance earth electrode disposed adjacent to the power electrode; and
- a third dielectric layer interposed between the capacitance earth electrode and the power electrode.
 - 5. (Currently Amended) A plasma generation apparatus for processing a material

under process using with a plasma, the apparatus comprising:

- a power electrode separated from the material under process at being processed by a predetermined interval;
- a first dielectric layer interposed between the power electrode and the material under processbeing processed;

an earth body including an APauxiliary plasma (AP) earth electrode disposed adjacent to the power electrode and generating an auxiliary plasma using thea power smaller than the power used in generating a main plasma generated between the power electrode and the material under process being processed and a capacitance earth electrode disposed adjacent to the power electrode and forming a single body with the AP earth electrode;

- a second dielectric layer interposed between the power electrode and the earth body;
- a gas flow portion for providing mixed gas mixture to a space between the power electrode and the AP earth electrode; and
 - a power controller controlling RF power supplied to the power electrode.
 - 6. (Currently Amended) The apparatus of claim 5, wherein:

the power electrode is formed in has a panel shape and is disposed above the material under process at being processed by a predetermined interval; and

the earth body is formed in has a panel shape in which and the AP earth electrode and the capacitance earth electrode face the power electrode covered by the second dielectric layer.

- 7. (Currently Amended) The apparatus of claim 5, wherein the gas flow portion includes:
 - a first flow path in which the mixed-gas mixture flows from the-outside;
- a second flow path connected to the first flow path and formed-parallel to the power electrode; and
- a plurality of orifices formed on the in an inner wall of the second flow path in order to provide the mixed gas mixture to the power electrode.
 - 8. (Currently Amended) The apparatus of claim 7, wherein: the gas flow portion further includes an inflow chamber previded between the

AP earth electrode and the dielectric layer; and

the orifices eenneetingconnect the second flow path to the inflow chamber.

- 9. (Original) The apparatus of claim 5, further comprising:
- a discharge needle disposed between the AP earth electrode and the second dielectric layer; and

an igniter electrically connected to the discharge needle.

- 10. (Currently Amended) The apparatus of claim 9, wherein including a lead wire connecting the discharge needle to the igniter and that includes a gap having a predetermined space.
 - 11. (Currently Amended) The apparatus of claim 5, wherein including:

a plurality of the power electrodes—are, the power electrodes being arranged in a row and vertical, perpendicular to a transportation path of the material under process; being processed, wherein the first and second dielectric layers are formed-on the surfaces of the power electrodes; and

each a plurality of the earth bodies, one of the earth bodies is being interposed between each pair of the power electrodes.

- 12. (Currently Amended) A plasma generation apparatus for processing <u>a</u> material under process using with <u>a</u> plasma, the apparatus comprising:
- a power electrode formed in a cylindrical having an elongated shape and separated from the a material under process at being processed by a predetermined interval;
- a dielectric layer covering the circumference of the power electrode circumferentially; an APauxiliary plasma (AP) earth electrode disposed adjacent to the power electrode and generating an auxiliary plasma using thea power smaller than the power used in generating a main plasma generated between the power electrode and the material under process being processed;
- a gas flow portion for providing a reaction gas to a space between the power electrode and the AP earth electrode; and
 - a power controller controlling RF power supplied to the power electrode.

- 13. (Currently Amended) The apparatus of claim 12, further comprising an MPa main plasma (MP) earth electrode contacting the material under process being processed and facing the power electrode.
- 14. (Currently Amended) The apparatus of claim 13, wherein the MP earth electrode includes a conveyer belt transporting the material <u>under process</u>being processed while maintaining an earth state.
- 15. (Original) The apparatus of claim 12, further comprising a capacitance earth electrode partially containing the power electrode and the dielectric layer.
 - 16. (Currently Amended) The apparatus of claim 15, wherein:

the capacitance earth electrode and the AP earth electrode are formed in a single body to formas an earth body; and

the gas flow portion includes a gas flow path formed-in the earth body.

- 17. (Currently Amended) The apparatus of claim 16, wherein:
- a portion of the dielectric layer is exposed from the at a bottom of the earth body; and the AP earth electrode is installed adjacent to the exposed portion of the dielectric layer that is exposed.
- 18. (Currently Amended) The apparatus of claim 16, wherein the gas flow portion includes:
 - a first flow path in which the reaction gas flows from the outside;
- a second flow path formed-parallel to the power electrode and connected to the first flow path; and
- a plurality of orifices formed on the in an inner wall of the second flow path in order-to provide the reaction gas to the power electrode covered by the dielectric layer.
 - 19. (Currently Amended) The apparatus of claim 18, wherein: the gas flow portion further includes an inflow chamber <u>provided</u> between the

AP earth electrode and the dielectric layer; and the plurality of orifices connects the second flow path to the inflow chamber.

20. (Currently Amended) The apparatus of claim 12, wherein:
the dielectric layer is formed as a hollow body; and
the inside diameter of the power electrode has an outside diameter and the dielectric
layer is longer has an inside diameter larger than the outside diameter of the power electrode.

- 21. (Currently Amended) The apparatus of claim 12, wherein: greeves are formed en the <u>a</u> surface of the power electrode <u>includes grooves</u>; and the grooves face the material <u>under process</u> being processed.
- 22. (Currently Amended) The apparatus of claim 12, further comprising:
 a discharge needle disposed between the AP earth electrode and the dielectric layer—or
 between the MP earth electrode and the dielectric layer; and
 an igniter electrically connected to the discharge needle.
- 23. (Currently Amended) The apparatus of claim 22, wherein including a lead wire connecting the discharge needle to the igniter and that includes a gap having a predetermined space.
- 24. (Currently Amended) The apparatus of claim 12, whereinincluding:
 a plurality of the power electrodes covered by a plurality of the dielectric layers are,
 the power electrodes being arranged in a row and disposed vertical perpendicular to a
 transportation path of the material under process being processed; and
 each a plurality of the AP earth electrodes, one of the AP earth electrodes is

installed being located adjacent to each of the dielectric layer layers.

25. (Currently Amended) The apparatus of claim 12, whereinincluding:
a plurality of the power electrodes and of the dielectric layers are, the power
electrodes being arranged in a row and disposed top and bottom of thea transportation path of
the material under process being processed; and

<u>a plurality of the AP earth electrodes</u>, the AP earth electrodes are installed <u>being</u> <u>located</u> adjacent to the <u>respective</u> dielectric layers, <u>respectively</u>.

- 26. (Currently Amended) The apparatus of claim 12, wherein the power electrode in the power
- 27. (Currently Amended) The apparatus of claim 12, wherein the power electrode and the dielectric layer have an uneven portion of the surface portion.
- 28. (Currently Amended) The apparatus of claim 12, wherein the AP earth electrode and the gas flow portion are <u>previded_located</u> at <u>the both_opposite</u> sides of the power electrode covered by the dielectric layer, respectively.